



IMMERSION COILS

Reactor Coil Model R500

Niche Reactor Coil Heat Exchangers are made with tubing of fluoropolymer fluorocarbon resin and are used for heating and cooling of corrosive fluids in a wide range of processes and applications. The well-known non-stick characteristics of fluoropolymer resist corrosion and reduce fouling.

Niche Reactor Coils are designed for immersion directly into the process vessel and are most efficient when agitated in the process solution. During agitation, the flexing action of the coils helps reduce fouling and dislodges deposits that may have formed. This and other unique design features make the Model R500 Reactor Coil ideal for crystallizer applications.

Specifications

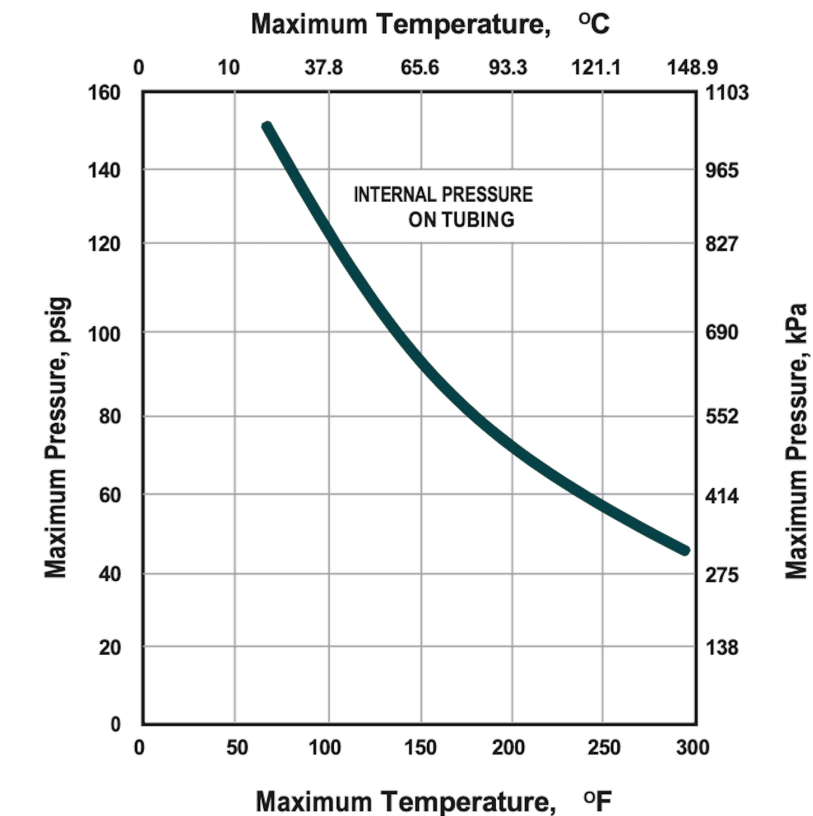
Description	Spec
Tubing Configuration	Loose Bundle
Tube Outside Diameter	.125 inch (3.175 mm)
Tube Wall Thickness	.0125 inch (.3175 mm)
Length Tolerance	Standard: -0, +5.0 inch (-0, +127 mm) Close: ±0.5 inch (±12.7 mm)
Average Heat Transfer Coefficient U	40-50 BTU/Hr/ft²/°F (227-284 watts/m² ·°K)

Model Number

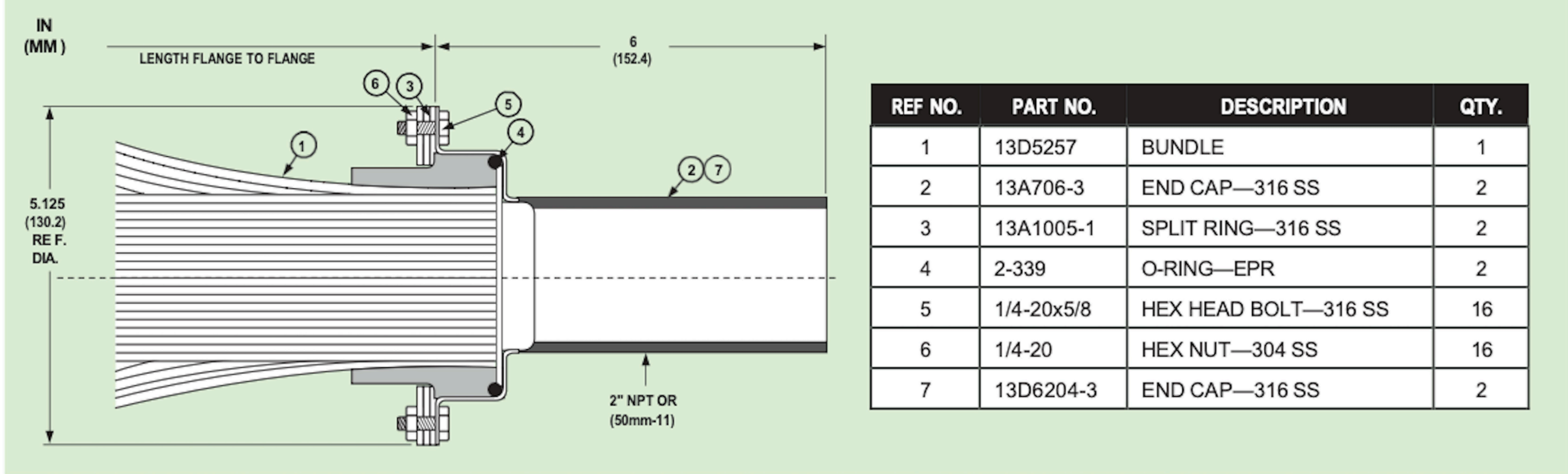
Example: R500SMC4-12		
R	REACTOR COIL	
500	MODEL NUMBER	
S	END CONNECTIONS	B = None (bundle only)
		S = Stainless steel
		T = TEFLON®
		W = Through the wall stainless steel
M	END THREADS	M = Metric
		(Blank) = NPT
C	TOLERANCE	C = Close
		(Blank) = Standard
4	GENERATION	
12	NOMINAL LENGTH (FT)	



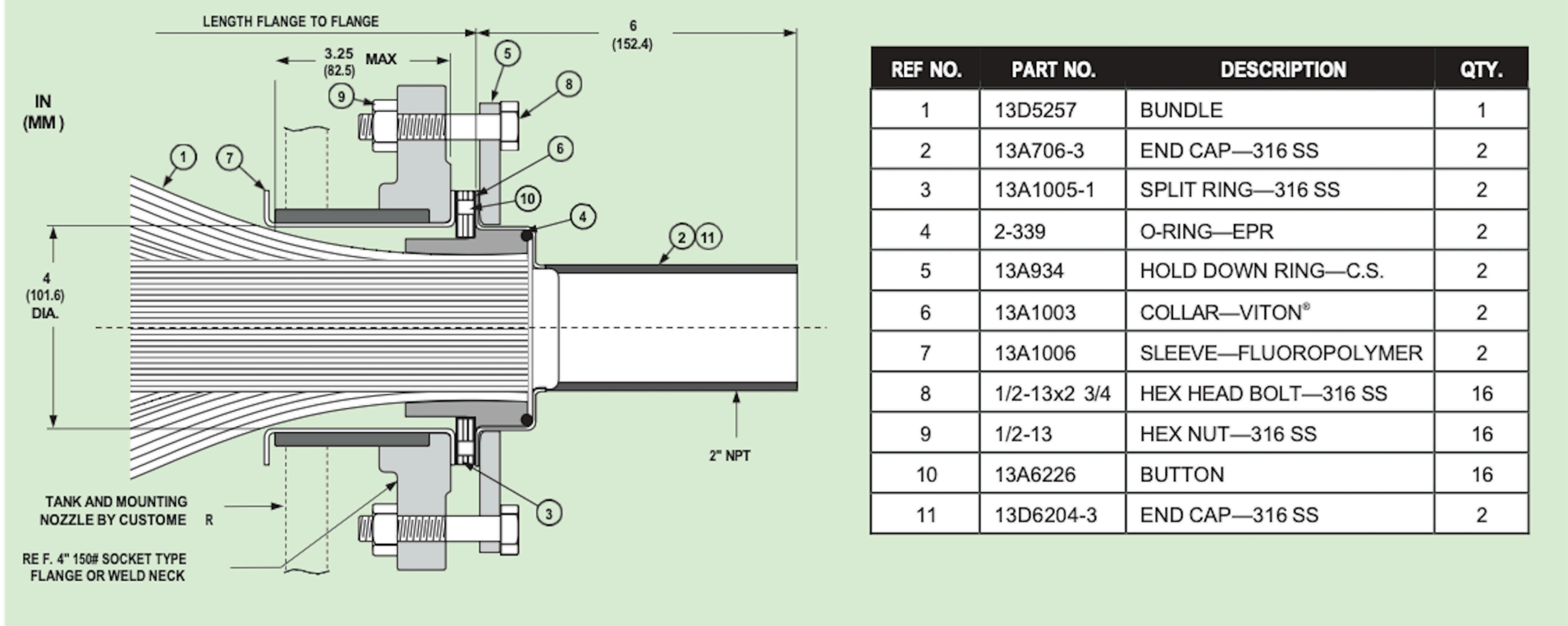
Operation Limits



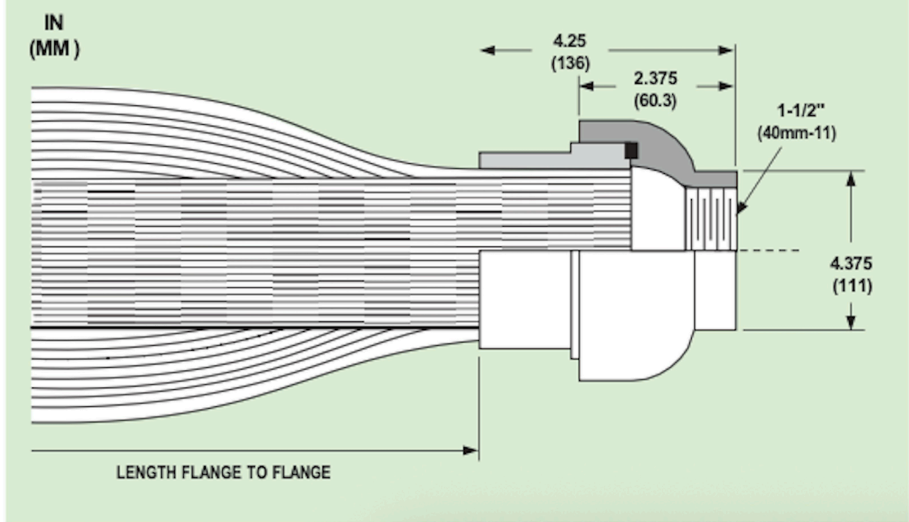
Model R500, SC, SMC



Model R500W, WC, WMC



Model R500T



Heat Transfer Area

LENGTH	AREA	
	FT ²	M ²
4	49.1	4.6
6	81.8	7.6
8	114.5	10.6
10	147.2	13.7
12	179.9	16.7
14	212.0	19.8
16	245.3	22.8